# ZB4BJ37

# black selector switch head Ø22 3-position stay put

Product availability: Non-Stock - Not normally stocked in distribution facility



#### Main

Commercial Status	Commercialised		
Range of product	Harmony XB4		
Product or component type	Head for selector switch		
Device short name	ZB4		
Bezel material	Black metal		
Mounting diameter	0.87 in (22 mm)		
Sale per indivisible quantity	1		
Shape of signaling unit head	Round		
Type of operator	Stay put		
Operator profile	Black long handle		
Operator additional information	Non padlockable		
Operator position information	3 positions +/- 45°		

#### Complementary

CAD overall width	1.14 in (29 mm)				
CAD overall height	1.5 in (38 mm)				
CAD overall depth	1.73 in (44 mm)				
Product weight	0.09 lb(US) (0.04 kg)				
Resistance to high pressure washer	1015.26 psi (7000000 Pa) at 131 °F (55 °C), distance: 0.1 m				
Mechanical durability	1000000 cycles				
Electrical composition code	C11 <= 3 contacts using single blocks in front mounting C8 <= 4 contacts using single and double blocks in front mounting C7 <= 4 contacts using single blocks in front mounting C6 <= 5 contacts using single and double blocks in front mounting C5 <= 5 contacts using single blocks in front mounting C4 <= 6 contacts using single and double blocks in front mounting C3 <= 6 contacts using single blocks in front mounting				

#### Environment

Protective treatment	TH				
Ambient air temperature for storage	-40158 °F (-4070 °C)				
Ambient air temperature for operation	-13158 °F (-2570 °C)				
Class of protection against electric shock	Class I conforming to IEC 60536				
IP degree of protection	IP69K conforming to IEC 60529				
NEMA degree of protection	NEMA 4X NEMA 13				
IK degree of protection	IK06 conforming to IEC 50102				
Standards	EN/IEC 60947-1 EN/IEC 60947-5-1 EN/IEC 60947-5-4 EN/IEC 60947-5-5 JIS C 4520 UL 508 CSA C22.2 No 14				

Product certifications	BV
	CSA
	DNV
	GL
	LROS (Lloyds register of shipping)
	RINA
	UL listed
Vibration resistance	5 gn (f = 2500 Hz) conforming to IEC 60068-2-6
Shock resistance	50 gn (duration = 11 ms) half sine wave acceleration conforming to IEC
	60068-2-27
	30 gn (duration = 18 ms) half sine wave acceleration conforming to IEC 60068-2-27

## Ordering and shipping details

Category	22468 - PUSHBUTTONS,22MM(METAL) NEW
Discount Schedule	CS2
Nbr. of units in pkg.	1
Product availability	Non-Stock - Not normally stocked in distribution facility
Returnability	N
Country of origin	FR

## Contractual warranty

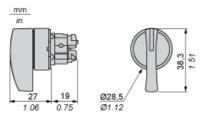
Warranty period	18 months	
Wallality pellou	10 11011113	



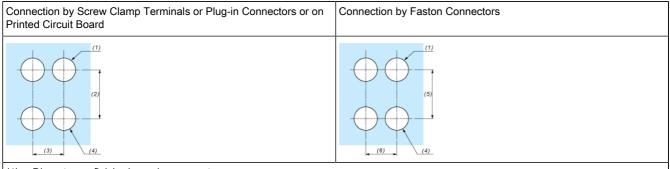
# Product data sheet Dimensions Drawings

# ZB4BJ37

#### **Dimensions**



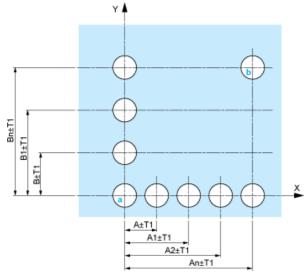
#### Panel Cut-out for Pushbuttons, Switches and Pilot Lights (Finished Holes, Ready for Installation)



- (1) Diameter on finished panel or support
- (2) 40 mm min. / 1.57 in. min.
- (3) 30 mm min. / 1.18 in. min.
- (4)  $\varnothing$  22.5 mm / 0.89 in. recommended ( $\varnothing$  22.3 mm  $_0$   $^{+0.4}$  / 0.88 in.  $_0$   $^{+0.016}$ )
- (5) 45 mm min. / 1.78 in. min.
- (6) 32 mm min. / 1.26 in. min.

#### Pushbuttons, Switches and Pilot Lights for Printed Circuit Board Connection

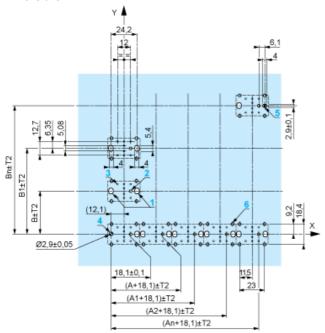
#### Panel Cut-outs (Viewed from Installer's Side)



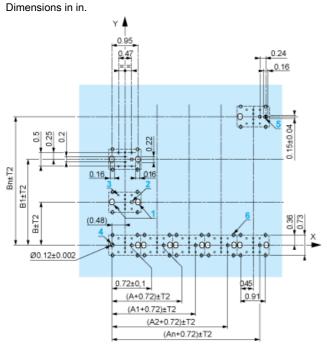
- A: 30 mm min. / 1.18 in. min.
- B: 40 mm min. / 1.57 in. min.

#### Printed Circuit Board Cut-outs (Viewed from Electrical Block Side)

Dimensions in mm



A: 30 mm min. B: 40 mm min.



A: 1.18 in. min. B: 1.57 in. min.

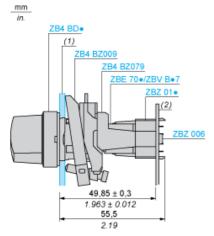
#### General Tolerances of the Panel and Printed Circuit Board

The cumulative tolerance must not exceed 0.3 mm / 0.012 in: T1 + T2 = 0.3 mm max.

#### **Installation Precautions**

- Minimum thickness of circuit board: 1.6 mm / 0.06 in.
- Cut-out diameter: 22.4 mm ± 0.1 / 0.88 in. ± 0.004
- Orientation of body/fixing collar ZB4 BZ009: ± 2 30' (excluding cut-outs marked a and b).
- Tightening torque of screws ZBZ 006: 0.6 N.m (5.3 lbf.in) max.
- Allow for one ZB4 BZ079 fixing collar/pillar and its fixing screws:
  - o every 90 mm / 3.54 in. horizontally (X), and 120 mm / 4.72 in. vertically (Y).
  - o with each selector switch head (ZB4 BD•, ZB4 BJ•, ZB4 BG•).

The fixing centers marked a and b are diagonally opposed and must align with those marked 4 and 5.



- (1) Panel
- (2) Printed circuit board

#### Mounting of Adapter (Socket) ZBZ 01•

- 1 2 elongated holes for ZBZ 006 screw access
- 2 1 hole Ø 2.4 mm ± 0.05 / 0.09 in. ± 0.002 for centring adapter ZBZ 01•
- 3 8 × Ø 1.2 mm / 0.05 in. holes
- 4 1 hole Ø 2.9 mm  $\pm$  0.05 / 0.11 in.  $\pm$  0.002, for aligning the printed circuit board (with cut-out marked a)
- 5 1 elongated hole for aligning the printed circuit board (with cut-out marked b)
- 6 4 holes Ø 2.4 mm / 0.09 in. for clipping in adapter ZBZ 01•

Dimensions An + 18.1 relate to the Ø 2.4 mm  $\pm$  0.05 / 0.09 in.  $\pm$  0.002 holes for centring adapter ZBZ 01•.

Electrical Composition Corresponding to Code C3
Electrical Composition Corresponding to Code C4
Electrical Composition Corresponding to Code C5
Electrical Composition Corresponding to Code C6
Electrical Composition Corresponding to Code C7



Electrical Composition Corresponding to Codes C9, C11, SF1 and SR1



Legend

Single contact



Double contact



Light block



Possible location



Sequence of Contacts Fitted to 3-position Selector Switch Body

Position 315°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		1	1	0	
Contacts	N/O		closed	closed	open
N/C		open	open	closed	

### Position 0°



Push	Position	Тор			
Bottom	Δ	Δ	Δ		
Location		Left	Centre	Right	
State		0	0	0	
Contacts	N/O		open	open	open
N/C		closed	closed	closed	

## Position 45°



Push	Position	Тор			
Bottom					
Location		Left	Centre	Right	
State		0	1	1	
Contacts N/O		open	closed	closed	
N/C		closed	open	open	